CONTENTS

Vol. 150, No. 1, September 1986

Serum erythropoietin levels and inhibitors of erythropoiesis in patients with chronic renal failure. *Y. Fukushima, M. Fukuda, K. Yoshida, A. Yamaguchi, Y. Nakamoto, A.B. Miura, T. Harada and S. Tsuchida* 1

Inhibitory effects of rimorphin and dynorphin on insulin secretion from the isolated, perfused rat pancreas. *J. Ishizuka, T. Toyota, T. Ono, M. Sasaki, C. Yanaihara and N. Yanaihara* 17

Postoperative growth of the left subclavian artery in a case after a modified Blalock-Park procedure. *E. Ishizawa and T. Horiuchi* 25

The effect of PNF position of the upper extremity on rapid knee extension. *M. Fujita and R. Nakamura* 31

Intermediate term results of isolated mitral valve replacement with glutaraldehyde-preserved porcine xenograft valve: Clinical and hemodynamic comparison between Hancock valve and Angell-Shiley valve. *Y. Kagawa, K. Tabayashi, Y. Suzuki, T. Ito, N. Sato and T. Horiuchi* 37

Effect of oral salbutamol on mucociliary clearance mechanisms in the lungs. *T. Isawa, T. Teshima, T. Hirano, A. Ebina, and K. Konno* 51

Biochemical improvement after treatment by bone-marrow transplantation in I-cell disease. *I. Kurobane, S. Inoue, Y.-I. Gotoh, S. Kato, M. Tamura, K. Narisawa and K. Tada* 63

Electron microscopic study of the cell surface of dibekacin-treated *Pseudomonas aeruginosa*. *S. Aonuma, F. Ariji, K. Oizumi and K. Konno* 69

Inhibitory activities for thrombin and factor Xa of whale heparin: Comparative studies on two preparations from different species. *N. Ototani and Z. Yosizawa* 77

Blood purification of bilirubin and bile acids by plasma exchange for patients with liver failure. *S. Matsubara, K. Okabe, K. Ouchi and Y. Owada* 83

Experimental studies on the influence of simultaneous ligation of the bile and pancreatic ducts upon gastric acid secretion and gut hormones. *I. Sasaki, H. Naito, S. Matsuno and T. Sato* 91

Short Report

Coronary dilator effect of MCI-176, a new calcium channel blocker, in dogs. *D. Horii and A. Ishibashi* 101

Vol. 150, No. 2, October 1986

A simple method for the determination of plasma extrinsic coagulant activity. *K.A. Hussein and N.T. Medoukh* 103

Corticosteroid binding in human artery. *H. Sasano, N. Watanabe and N. Sasano* 117

Serotonin uptake at 22°C of stored platelets. *T. Shimizu* 127

Surgical management of pulmonary atresia, and critical pulmonary stenosis with intact ventricular septum. *E. Ishizawa, T. Horiuchi, M. Tadokoro, Y. Suzuki and S. Yamaki* 135

Regional differences of responses to adrenoceptor agonists in isolated and

perfused canine coronary arteries. *T. Nakane and S. Chiba* 145
Effects of cisapride on the secretion of pancreatic polypeptide in healthy volunteers. *A. Funakoshi, H. Shinozaki, K. Miyazaki, I. Nakano and H. Ibayashi* 155
Influence of obstructive jaundice on acute gastric ulcer, intragastric pH and potential difference in rats. *I. Sasaki, H. Miyakawa, J. Kameyama, Y. Kamiyama and T. Sato* 161
Determination of urinary vanillylmandelic acid and homovanillic acid by high performance liquid chromatography for mass screening of neuroblastoma. *Y. Sato, J. Hanai, N. Takasugi and T. Takeda* 169
Experimental study on the regulation of testicular function by the cremaster reflex in rats. *M. Kojima and H. Ohe* 175
Plasma somatostatin response in normal and gastrectomized subjects. *T. Wasada, Y. Kodama, K. Inoue, A. Hisatomi, Y. Sako and H. Ibayashi* 181
Fluid secretion and electrical properties of pancreatic acini of syrian golden hamster. *Y. Suzuki* 189
Immunoelectron microscopic observations on the localization of fibronectin in normal human lung. *K. Takusagawa, N. Asoo, T. Sato, H. Nagai, M. Motomiya and K. Konno* 209
Short Reports
Chronic T cell leukemia with a NK phenotype reacting with anti-myelin-associated glycoprotein (MAG) mouse monoclonal antibody. *M. Tanaka, M. Nishizawa, T. Inuzuka, H. Baba, S. Sato, T. Miyatake, S. Aoki and S. Shinada* 225
Diagnosis of alkaptonuria by NMR urinalysis: Rapid qualitative and quantitative analysis of homogentisic acid. *S. Yamaguchi, N. Koda and T. Ohashi* 227
The long-term facilitation of neuronal activity produced by repeated pairing of an orthodromic stimulus and antidromic stimuli in the sliced hippocampal formation. *K. Ito, H. Miyakawa and H. Kato* 229

Vol. 150, No. 3, November 1986

Establishment of six human pancreatic cancer cell lines and their sensitivities to anti-tumor drugs. *M. Kobari, H. Hisano, S. Matsuno, T. Sato, M. Kan and T. Tachibana* 231
Purification of rat retinol-binding protein using blue sepharose CL-6B. *K. Masaki, Y. Wako, T. Urano and S. Kimura* 249
Effect of duration of stimulation on mechanical properties of trachealis muscle. *H. Sasaki, F.G. Hoppin, Jr. and T. Takishima* 259
Endotoxemia after abdominal surgery. *K. Nakagawa, S. Matsubara, K. Ouchi, Y. Owada and Y. Yajima* 273
Inhibitory effect of liposome-encapsulated penicillin G on growth of *Listeria monocytogenes* in mouse macrophages. *M. Ito, E. Ishida, F. Tanabe, N. Mori and S. Shigeta* 281
Utility of BID administration of cimetidine for gastric ulcer: A comparison with QID administration in a double blind manner. *S. Asaki, Y. Goto and T. Tanaka* 287
Angiocardiographic estimation of left ventricular mass in normal infants and children. *T. Akiba, M. Yoshikawa, S. Otaki, Y. Kobayashi, M. Nakasato, H. Suzuki and T. Sato* 299

Identification of human saliva by antisera to α-amylase in human salivary glands. *I. Ohya, M. Iwasa, H. Komoriya, Y. Bunai and K. Sagisaka* 309
Stability of endotoxin detected in human plasma against endotoxin-inactivating factor (EIF): Quantitative analysis of EIF using chromogenic endotoxin assay. *Y. Yajima, I. Fukuda, M. Otsuki, H. Suzuki and Y. Goto* 317
Sensory innervation of gingival and alveolar mucosa of the house musk shrew (*Suncus murinus*). *T. Yamamoto and S. Sakada* 327
A case of a newborn infant with Hb M Iwate. *R. Kumagai, H. Niitsu, I. Katsura, N. Nakayashiki and S. Katsura* 337
Heat and chemical stability of blood group-specific immunoglobulins in the state of immunecomplex. *K. Sagisaka, M. Noguchi, M. Funayama and Y. Aoki* 345
Age- and sex-related profiles of serum primary and total bile acids in infants, children and adults. *H. Kawasaki, Y. Yamanishi, M. Miyake, T. Mura and S. Ikawa* 353
Short Reports
An electrophoretic slow PGM1 variant detected in a Yamanashi population. *N. Komatsu, A. Kido and M. Oya* 359
LAV/HTLV-III antibodies in patients treated with intravenous gamma-globulins. *T. Kanoh, T. Ohno, N. Funakoshi, H. Fujii and T. Okada* 361
A rapid silver staining method for identification of *Mycobacterium leprae* in histologic sections. *M. Senba, N. Fukushima and T. Toda* 363

Vol. 150, No. 4, December 1986

Evidence for suppression of potassium conductance by noradrenaline in smooth muscle of guinea-pig vas deferens. *M. Wakui and Y. Fukushi* 365
Protective effect of prostagladin I_2 on hepatic mitochondrial function of the preserved rat liver. *K. Okabe, P.S. Malchesky and Y. Nose* 373
Possible relationship between the release of calcium ions and inactivation of the potassium conductance induced by noradrenaline in smooth muscle of the guinea-pig vas deferens. *M. Wakui and Y. Fukushi* 381
Antitumor activity of lipopolysaccharide in tumor-bearing mice pretreated with BCG. *H. Sato, M. Ito, T. Abe, N. Kumano, M. Motomiya and K. Konno* 391
New bioptic method for submucosal tumor of the gastrointestinal tract. *S. Asaki, N. Ishii, T. Nishimura, S. Ohara, N. Yamaguchi and T. Tamura* 401
Significant regression of the tumor combined with the high level of plasma cortisol by low-dose administration of O, p′-DDD in a case with Cushing's syndrome caused by adrenocortical carcinoma. *K. Otokida, M. Nakamura, M. Takeda, T. Ito, M. Kato, T. Masuda and A. Tashiro* 407
Angiotensin II-induced tachyphylactic constrictions in isolated and perfused canine mesenteric arteries. *S. Chiba and M. Tsukada* 417
Two cases of saline-responsive metabolic alkalosis associated with high urinary chloride concentrations. *Y. Wakabayashi, T. Mishina, F. Marumo and R. Kikawada* 427
Study on monoamine metabolite contents of cerebrospinal fluid in patients with neurodegenerative diseases. *N. Ichikawa* 435
Effect of antispastic drugs on rapid force generation of spastic muscle. *R. Nakamura and I. Tsuji* 447

Adaptation of a human monocytic leukemia cell line (THP-1) in a protein-free chemically defined medium. *S. Tsuchiya, N. Minegishi, M. Minegishi, T. Sato and T. Konno* 455

Validity of Ewald's law in the horizontal semicircular canals and the vestibular nuclei: Electron microscopic observation and quantitative [^{14}C]-2-Deoxy-D-glucose study. *J. Hozawa, S. Usami and I. Mori* 467

Modification by nicorandil and carbachol of the inward calcium current in single cells of the guinea-pig heart. *T. Iijima and N. Taira* 475

Short Reports

Trimethoprim interference in methotrexate assay by an enzyme inhibition assay kit. *S. Kitaoka, M. Terasawa, E. Goto, T. Miyaji, S. Tsuchiya and T. Konno* 481

Tumor histology and the immunoregulatory T lymphocyte subsets in lung cancer patients. *N. Kumano, S. Koinumaru, S. Suzuki, T. Ishikawa, K. Oizumi and K. Konno* 483